

Broadband RF Over Fibre ODU 1310nm Transmit 50MHz to 2450MHz Compact & Weatherproof Housed in IP65 rated waterproof enclosure StingRay Fibre Series www.et/systems.com Monitoring Operating Frequency Operating Frequency

- Model Number: SRY-TX-B2-925
- Compact waterproof housing
- Redundant hot swap external power supply
- Provided with short circuit protected LNB power 13/18V, 22kHz, 500mA max
- LED indicators for module & power and status
- For use with ETL's Broadband receive units.

Available with RF connector options:

- 50 Ω N-Type
- 75 Ω F-Type

Flexible
Mounting
Band on to pole or
bolt to wall

| | | RF Specification | |
|--|---|------------------|---|
| Capacity | One RF over Flbre Optical Transm | it Unit | |
| Power Connector | 1K - LEMO FGL.1K.302.CLLK75Z | | Cable mount LEMO 1K series 2 pin |
| Input ports | 50Ω N-type, 75Ω F-type. | | DC power available, do not connect to power source |
| Fibre output connector | Senko IP-SC/APC | | |
| Frequency | 50MHz to 2450MHz | | |
| Connector & impedances | 50Ω | 75Ω | |
| | N-type | F-type | |
| Input Return Loss (dB) Typ. | 18 | 12 | |
| Min | 12 | 10 | |
| Output Return Loss (dB) Typ. | NA | NA | |
| Min | | | |
| Gain flatness 50 to 200 MHz (dB) | ±2.0 | ±2.0 | |
| Gain flatness 200 to 850 (dB) | ±2.0 | ±2.0 | |
| Gain flatness 850 to 2450 (dB) | ±2.0 | ±2.0 | |
| OIP3 (dBm) | Typical 17 dBm | | Test condition: SRY-TX-B2-925, 0 dB optical link loss, -22 dBm |
| , | Worst Case 14 dBm | | tones at 2150 and 2152 MHz |
| CNR (in any 36MHz) (dB) | Typical -50 dB | | Test condition: SRY-TX-B2-925, 0 dB optical link loss, -10 dBm RF |
| | Worst Case -45 dB | | i/p power, -10 dBm RF o/p total power. |
| NF (dB) | Typical 12dB | | Test condition: SRY-TX-B2-925, 0 dB optical link loss, -50 dBm RF |
| | Worst Case 15dB | | i/p power, -10 dBm o/p power |
| Group Delay variation (ns) | 2 over full band | | |
| | 1 over any 36MHz. | | |
| SFDR (dB/Hz ^{2/3}) | 105 typ., 100 min | | Test condition: SRY-TX-B2-925, 10 km fibre, -13 dBm tones at |
| | | | 2150 and 2152 MHz |
| IMD3 (dBc) | -65 typ., -60 min. | | Test condition: SRY-TX-B2-925, 10 km |
| | | | fibre, -13 dBm tones at 2150 and 2152 MHz |
| RF Input Signal Range, total power (dBm) | -60 to -10 | | Operational i/p range |
| Max RF input total power (dBm) | 16 | | Damage level, NOT operational. |
| LNB Power | 13/18 Vdc, 22 kHz, 500mA max | | Short circuit protected |
| Module input voltage (V DC) | 12 | | Use with PSU SRY-12-916-xx1K |
| DC consumption (W) | 15 | | Max with 18V, 500mA LNB power |
| External PSU Redundancy | Dual redundant hot swap external units | | Separate Unit |
| Local Monitoring | Full remote monitoring, PSU voltage, RF amp current, temper- ature, laser power, RF modulation power, laser optical power. | | Contact ETL if remote monitoring and control is required. |
| MTBF | > 200,000 hours | | |

Optical and RF levels reported

at receiver

Broadcast



Marine Oil & Gas



SNG & VSAT



Satellite Teleport



V 1.3 E&OE www.etlsystems.com

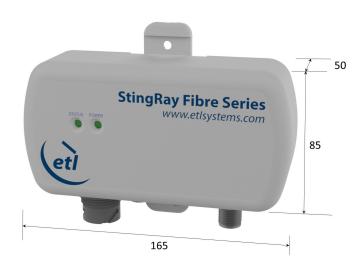


Model Number: SRY-TX-B2-925 Broadband RF Over Fibre ODU

Technical specifications and operating parameters

| | Optical Parameters | |
|--|--|---|
| Laser Type | DFB | Two stage optical isolator for improved performance |
| Optical Wavelength (nm) | 1310 ± 10 | |
| Optical Power output (dBm) | 3.8 ±2.5 | |
| Optical Connectors | Senko IP-SC/APC | Single mode fibre |
| | Control, Monitoring & Alarms | |
| Control 1 Switch 2 Position 3 | LNB on/off LNB 13/18 v LNB 22 kHz on/off AGC on/Gain fixed | |
| Indicator lights Power Status Green Status Red | Module powered Module OK Internal monitoring alarm | |
| Monitoring includes | Laser Optical Output Power Status of amplifier stages Module temperature | Monitored in each module |
| AGC | Factory set | Once AGC level set, gain can be fixed |
| | Environmental Conditions | |
| Operating Temperature (°C) | -20°C to +55°C | |
| Storage Temperature (°C) | -40°C to +85°C | |
| Location | Indoor or outdoor use to IP65 | Mount out of direct sunlight |
| Humidity | TBA | Relative Humidity |
| Altitude | 10,000 feet AMSL | Above Mean Sea Level |
| | Physical Dimensions & Parameters | |
| Weight | TBD Kg | |
| Dimensions | 85mm high x 50mm deep x 165mm wide | Excluding mounting flanges and connectors |
| Front Panel Colour | RAL9003 – White (Semi-Matte) | |

Physical Dimensions (mm)



Note: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved specification accuracy. Note-1: Typical parameters are guide figures and measured data may deviate from the quoted figures. ETL endeavours to exceed the quoted typical parameters where practically possible.

Note-2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage. For reliable long term operation do not exceed the parameters given in above.

Note-3: The spec table is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

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